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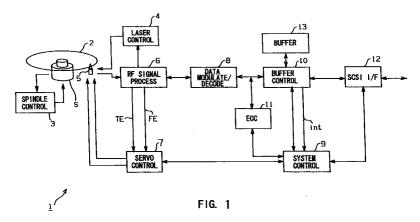
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(54)Data reproducing apparatus

An optical disc device (1) which is used for an auxiliary memory of a computer etc., and allows it to effectively avoid an illegal copy. A recording region of a disc recording medium 2 is divided into sectors, and the user data D0 to D511 is recorded into each sector in such a manner that the stated quantity of data is recorded at a time, in addition, the identification data

VU1 to VU4 for the user data D0 to D511, and the error detecting and correcting codes ECC1, 1 to ECC5, 16 for both the user data D0 to D511 and the identifying data VU1 to VU4 are also recorded into each sector, and then the user data D0 to D511 is processed based on the identification data VU1 to VU4.





EUROPEAN SEARCH REPORT

Application Number EP 94 11 2775

DOCUMENTS CONSIDERED TO BE RELEVANT				CLASSIFICATION OF THE	
Category	Citation of document with in of relevant pas		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)	
Х	GB 2 123 597 A (FOR * the whole document	TUNE SYSTEMS CORP.)	1,4,15	G06F12/14 G11B19/02 G11B23/28	
Х	EP 0 501 508 A (OLYM* claims 1,1,3,14;	MPUS OPTICAL CO. LTD.) figure 1 *	1-4,6,15	G06F7/22 G06F1/00 G11B20/00	
Х	EP 0 464 320 A (GIG/ DATENSICHERUNG GMBH * the whole document	.)	1,4,15	411525, 65	
Α	CA, US, pages 49-53, XP0001 K. R. NIELSEN: "Pro protection capabili	ember 1990, PALO ALTO 78550	1-6,15		
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)	
				G06F G11B	
	The present search report has been drawn up for all claims				
	Place of search	Date of completion of the search		Examiner	
	BERLIN	10 December 1996	BEF	RNAS Y.	
Y:pa. do	CATEGORY OF CITED DOCUMENT rticularly relevant if taken alone rticularly relevant if combined with and cument of the same category thnological background	E : earlier patent do after the filing d bther D : document cited f L : document cited f	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons		
O: non-written disclosure P: intermediate document			& : member of the same patent family, corresponding		



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	CL	AIMS INCURRING FEES		
The present European patent application comprised at the time of filling more than ten claims				
		All claims fees have been paid within the prescribed time limit. The present European search report habeen drawn up for all claims.		
]	Only part of the claims fees have been paid within the prescibed time limit. The present European search report has been drawn up for the first ten claims and those claims for which fees have been		
		namely claims:		
]	No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.		
LACK OF UNITY OF INVENTION				
The Search Division considers that the present European patent application does not comply with the requirement of the unity of the invention and relates to several inventions or groups of inventions, namely:				
		·		
]	All further search fees haven been paid within the fixed time limit. The present European search report has been drawn up for all claims		
		Only part of the further claims fees have been paid within the prescibed time limit. The present European search report has been drawn up for for those parts of the European patent application which relate to the inventions in respects of which search fees have been paid,		
		namely claims:		
C	X	None of the further claims fees have been paid within the prescibed time limit. The present European search report has been drawn up for for those parts of the European patent application which relate to the invention first mentioned in the claims,		
		namely claims:		



EP 94112775 - B -

X | LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

- 1. Claims 1-6 and 15 are concerned with a reproducing apparatus having an identification datum where when this Datum doesn't match a (vendor) unique datum recorded on the disc, control means prevent output of the data from the interface of the reproducing apparatus.
- 2. Claims 7-14,16,21 and 22 are concerned with a reproducing apparatus having an identification datum, where, based on the result of the detection of the match between this Datum and a (vendor) unique datum recorded on the disc, the logical address of the data recorded on the medium is rearranged.
- 3. Claims 17-20 are concerned with a reproducing apparatus comprising error correction means, error rate detecting means and data replacement means whereby the data replacement means record the error corrected data if the error rate is higher than a reference rate, the reference error rate being changed in accordance with the unique datum.